

OUTDOOR Version

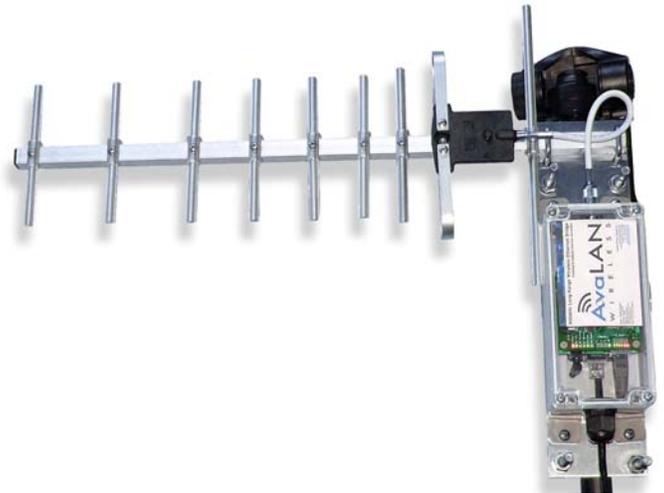


## 900MHz Long Range Wireless Ethernet Bridge Enabling Broadband Internet Anywhere!

The AW900x enables Non-Line-of-Sight Broadband access to remote Wi-Fi APs, Ethernet Pan/Tilt/Zoom Security cameras, VoIP phones or Internet Kiosks. AvaLAN's product offers the ideal combination of price, range, data rate, security, interference avoidance, Quality-of-Service and Ease-of-Use.

### Features:

- Foliage penetrating, non-line-of-sight wireless Ethernet bridging.
- Does not interfere with Wi-Fi networks.
- Highest Quality of Service (QoS) available - Synchronous point to point protocol enables extremely low data latency and jitter.
- 128bit encrypted payload protection provides secure data delivery.
- Simple plug and play - pre-configured as matched pairs with no user programming required.
- Operates in the 902-928MHz band and does not require an FCC license to operate or install.
- Power over Ethernet Enabled
- VLAN extensions supported.



### The best solution when:

- A Cost-effective, simple to install, Non-Line-of-Sight Wireless Broadband backhaul is required.
- Guaranteed DSL-rate throughput is required. (Wi-Fi APs/PTZ Cameras/ Kiosks)
- Guaranteed latency for voice or video is required. (VoIP/PTZ Cameras)
- Ultra low current consumption is required. (1 Watt - Solar powered systems)

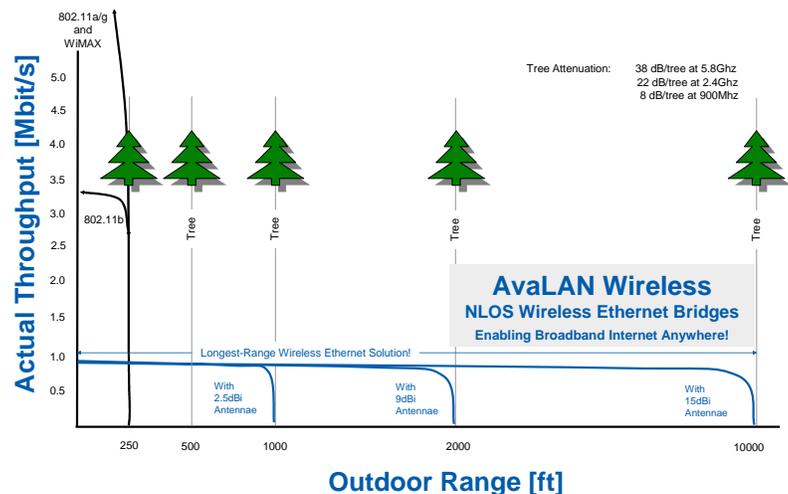
### Range:

Antennas:  
+11dBi (shown)  
+15dBi available.

Non-Line-of-Sight Range (Foliage):  
Up to 10x the range of Wi-Fi  
(with +15dBi directional antennae)\*  
Up to 2 miles with 4 trees  
(with +15dBi directional antennae)\*

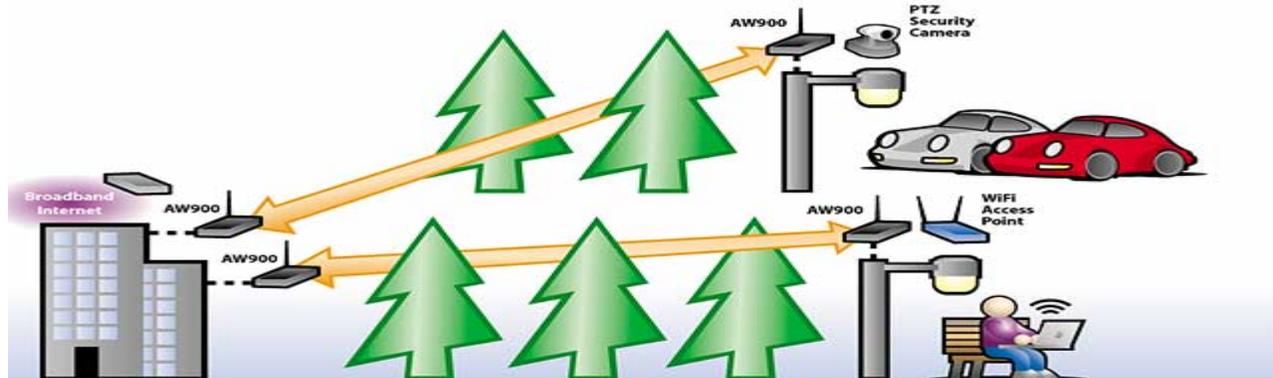
Line of Sight (Clear Fresnel zone):  
Over 40 miles  
(with +15dBi directional antennae)\*

\*range may vary due to size of trees



Outdoor Range [ft]

## Application diagram:



## Technical Specifications: (typical)

Characteristic	Specification - description
RF transmission rate:	1.5 Mb/s
Throughput	935 Kb/s
Output power:	4 watts EIRP with 15dBi antenna - +21dBm at antenna port
Receive sensitivity:	-112 dBm at 10e-4 BER with 15dBi antenna
Latency:	< 2ms - assuming a dedicated wireless link to client device.
Jitter:	±0.5ms - depending upon packet size, interference and SNR.
Current consumption:	Transmitting - 230mA at 4.5V
Radio channels:	12 Non-overlapping
Automatic frequency select:	Yes - radio channel automatically selected and adaptively optimized
Manual frequency mode:	Yes
Status LEDs:	Power, RF Link, Ethernet Link, Traffic, RF RX, RF TX, 4/Channel and 6/Link Quality
MAC pass-through filter:	Yes - can be disabled
Error correction technique:	Sub-block error detection and retransmission
Adjacent-band rejection:	SAW receiver filter attenuates cellular and pager interference.
Enclosure Type:	NEMA 4X
Temperature range:	-30°C to 60°C
Power over Ethernet:	Proprietary 6/12 volt system - Includes injectors/power supplies Maximum of 300ft Ethernet cable or 4 Ohm CAT5 cable insertion loss.

## Ordering information:

Part number	Price	Description	Contents
AW900x	MSRP \$999	Outdoor Long Range Wireless Ethernet Bridge	2 Radios, 2 power supplies, 2 POE injectors, 2 wall mounting kits, 2 30ft outdoor grade CAT5 cables
AW11	MSRP \$79	11dBi antenna	11dBi Yagi antenna - Includes wall mounting hardware, 10in RPTNC pigtail
AW15	MSRP \$99	15dBi antenna	15dBi Yagi antenna - Includes wall mounting hardware, 10in RPTNC pigtail
AW-XPM	MSRP \$49	pole mounting bracket	Includes: one pole mounting bracket for up to 2" pipe. AW15 or AW11 antenna can be mounted directly to this plate.

\*Prices subject to change

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